NDP - 4185 / 4303 / 4601 (Linear mode)

Description

This series merge the low ripple, high precision output of laboratory graded Linear Regulated Power Supplies with Full Remote Programming and Data Logging functionality.

The popular USB and versatile RS-485 interface are built in with the unit for full remote programming and data logging with personal computer.

One PC can control and data log up to 31 power supplies of different models of this series via RS-232/RS-485 Adapter.

With our software, the power supply can operate up to 9 different sets of voltage and limit current; and 20 sequential timed-steps. The remote program also can store up to 100 sequential timed-steps of different sets of voltage, current and the running time up to 999 repetitive cycles and controls power supply. All the collected data from each power supplies during operation can be stored in MS Excel™ (.xls) format.

Command Set and LabView™ driver are given, so that users can integrate with their own software with the power supply for full remote programming functions.

In addition to the tracking OVP (Over Voltage Protection), there is an user preset upper output voltage limit, which prevents voltage adjustment over the preset limit.

This feature is vital in preventing damage to delicate, voltage sensitive test piece & PCB.

Typical Applications

R&D works, Quality Control, Production especially in applications which require groups of different settings of output voltage, current limit levels for various cyclic operation period and records of output reading with dynamic loading during tests. It is ideals for applications with multiple power supplies at various locations with one centralized PC control.

Features

- Linear mode for high precision, low noise output,
- Excellent Load and Line regulation,
- Full remote programming and data logging,
- Built-in USB and RS232/485 interface which can control up to 31 units,
- Supplied with software, command sets and LabView™ driver,
- Local or remote programmable cyclic run up to 20 sets of V, I , operational periods,
- 9 preset voltage and current at keypad and software,
- 20 sequential timed steps can be stored in power supply or computer,
- 100 sequential timed steps can be stored in computer,
- CC & CV indicators with auto-cross over,
- 4 digits LED high resolution ammeter and voltmeter,
- Tracking OVP and user preset maximum output voltage.

CE RoHS COMPLIANT 2002/95/EC

Specifications

	NDP - 4185	*NDP - 4303*	*NDP - 4601*
Output Voltage	0 - 18VDC	0 - 30VDC	0 - 60VDC
Output Current	0 - 5A	0 - 3A	0 - 1.5A
Output Rated Power	90W		
Ripple & Noise (r.m.s.)	3mVrms		
Load Regulation (Voltage)	5mV	4mV	5mV
Line Regulation (Voltage)	3mV		
Load Regulation (Current)	5mA	4mA	4mA
Line Regulation (Current)	2mA		
Input Voltage	230VAC / 50Hz~ (120VAC / 60Hz~ or on request)		
Power Consumption	Approx. 220V A/W		
Display Meter	4 digits - Display LED Ammeter and Voltmeter		
Meter's Accuracy	±0.1% +2 counts		
Indicators	Constant Current & Constant Voltage LED Indicators		
Cooling System	Natural Convection		
Operating Temperature	5 - 40°C		
Protections	Tracking OVP (Over Voltage Protection), Current Limiting and Over Temperature Protection		
Approvals	CE-EMC : EN55011 , CE-LVD : EN 61010		
Dimensions (WxHxD)	205 x 115 x 275mm / 8 x 4.5 x 10.8in.		
Weight	Approx. 5Kgs / 11Lbs		
Accessories	User Manual, Application Software for windows, LabView™ Driver, Command Set, USB1.1 Driver, USB Cable, RS-485 Connector and One 120Ohm Resistor		
Optional Accessory	RS-232 to RS-485 Adaptor (ATR-2485)		
Remarks	Adjustable Upper Voltage Limit, Power Factor Correction		
Remote Programming Specifications			
Communication Interface	(USB1.1 Single Power Supply) and (RS-485 up to 31 Power Supplies)		
Remote Programming Functionality	Full Control of Power Supply Functions and Data Read-back		
Data Logging	Yes, with supplied software		
Baud Rate	9600bps		

All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE *